A. I. A. File No. 35 p 1

TRUSCON

MODEL No 5

STANDARD CASEMENTS

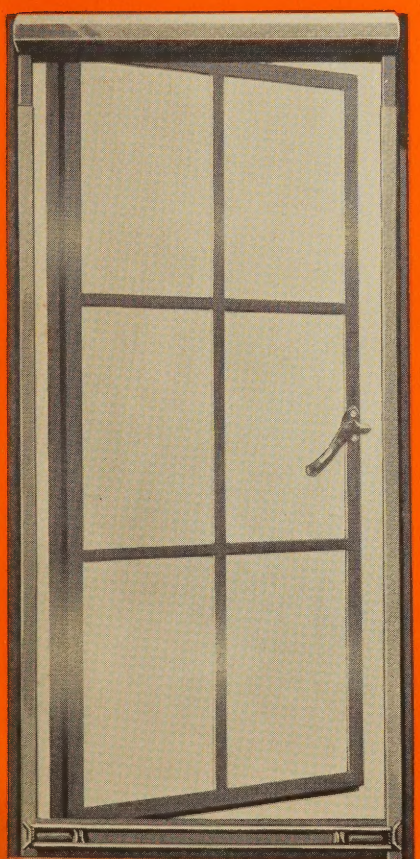
with

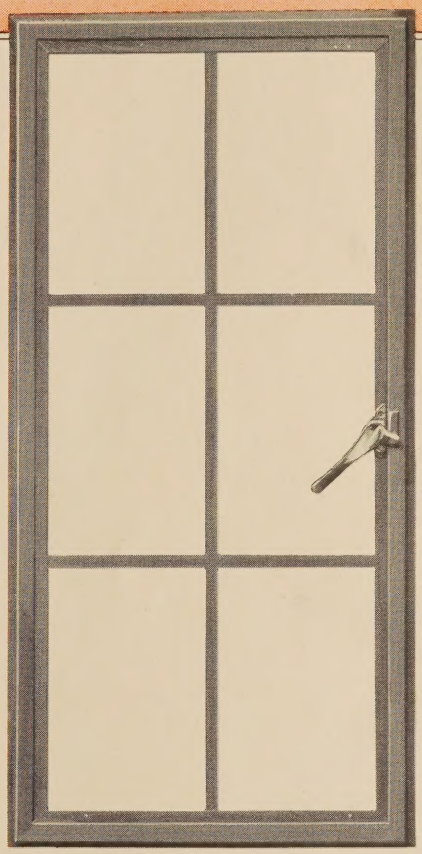
Casement Screens

CASEMENT

Rol-up

SCREENS





CASEMENT

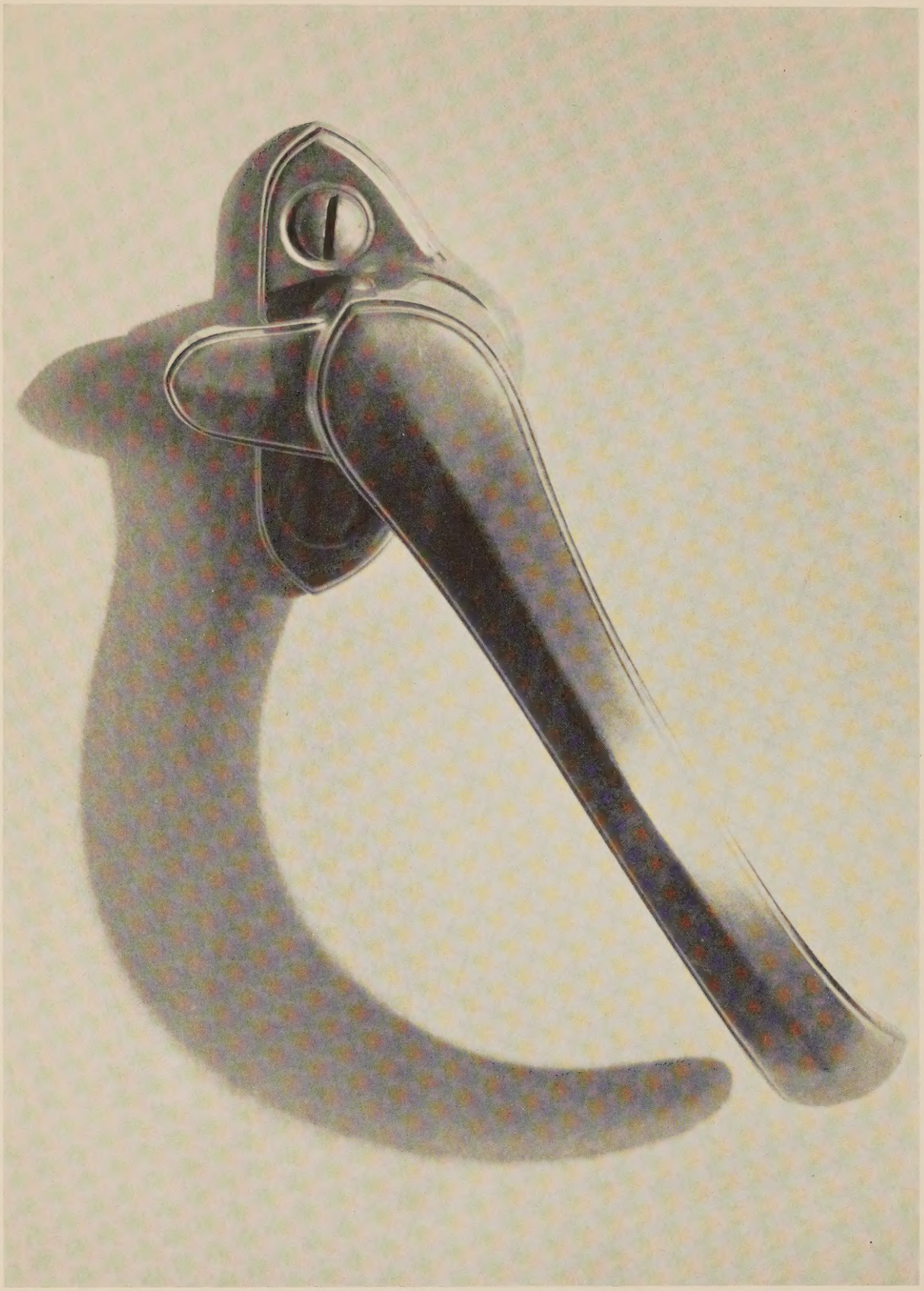
SIDE HINGED

SCREENS

TRUSCON STEEL CO.
TRUSCON
BUILDING PRODUCTS

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO

Engineering and Sales Offices in all principal cities
Dealers Everywhere



All Truscon Screened Casements are fitted with Casement Handles by Ternstedt

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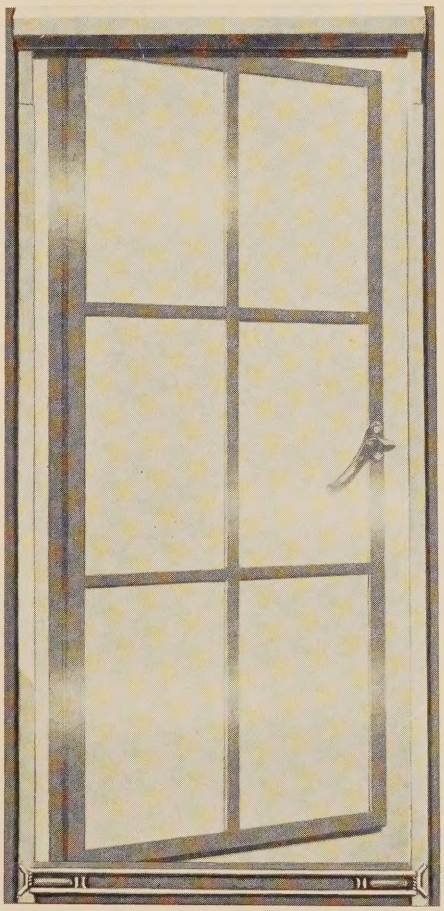
PRINTED IN U. S. A.

CASEMENT Rol-up SCREENS

THE final touch of modernness to the modern home is a casement window properly screened. Truscon has taken the lead—first, in the further development of the casement, beautifying it with fittings, designed and executed by Ternstedt, that rival those of the costliest automobile—and now, the creation of a roller screen that is in perfect harmony in every respect with the whole. Beauty has been stressed, but the beauty has been equalled by mechanical perfection and practicability.

Every detail of the "Casement Rol-Up Screen" has been developed to a point where further improvements seem impossible. Excess strength is supplied to all parts subject to wear, yet the screen blends in so perfectly with the casement that it serves merely to add a note of distinction to the home.



DESIGNED FOR TRUSCON CASEMENTS

The Casement Rol-Up Screen is not a "fixture" in the ordinary sense of the word, but is an integral part of the casement window. No cutting or fitting is necessary and no alterations or adjustments in either the screen or the casement are needed.

ARCHITECTURALLY CORRECT

Casement Rol-Up Screens are thoroughly in keeping with the architectural beauty of the casements. The slender guides fit flush against the frame and the small hexagon metal housing blends in perfectly with either the transom bar or head jamb.

ECONOMICAL IN USE

The screen is out of the way when not in use and is thus protected from the weather or other chances of damage. Its life is much longer as a result. Excess strength is supplied to all parts subject to wear, assuring permanent mechanical satisfaction.

CONVENIENT

Always ready for use—no removing and storing and no hunting proper screen for each particular window. In winter, the screen can be drawn down to keep drapes from blowing against sooty sill.

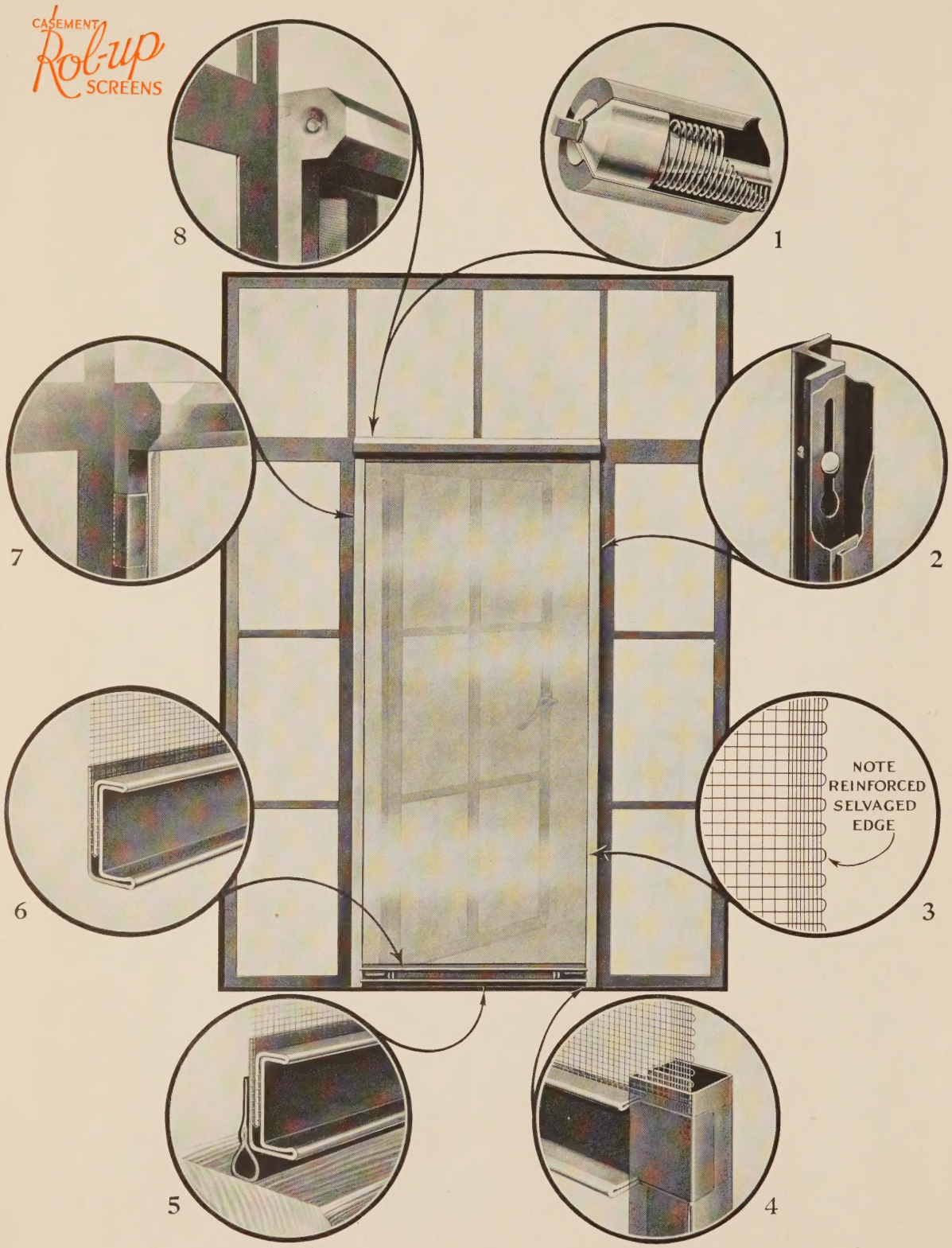
MORE AVAILABLE LIGHT

When Casement Rol-Up Screens are used, only the ventilating units are covered, leaving the stationary side lights and transoms free. When the ventilator is closed, the screen may be rolled up, leaving the entire casement unobstructed.

LOW COST

Due to standardized design and volume production, the cost of the Casement Rol-Up Screen has been lowered to a point within the reach of every user of Truscon Steel Casements. Installation is simple, only two minutes being required to install the screen.

TRUSCON STANDARD CASEMENTS Model No. 5 WITH SCREENS



Construction Features

(ILLUSTRATED ON OPPOSITE PAGE)

CASEMENT Rol-up SCREENS

1 Operating Mechanism—Made to Truscon specifications, with heavy bearings and special oversize tempered coil spring, properly lubricated. A heavy steel mandrel runs the full length of the roller, assuring maximum strength and rigidity.

2 Screw Slot—Six screws project slightly from the casement frame and engage in slots, four of which are in the screen guides and two in the end cap projection of the housing. The guides and housing have vertical adjustments sufficient to allow for any stool and head condition, thus eliminating cutting or fitting. When the six screws are tightened, the entire screen is firmly fixed in place.

3 Wire Cloth—The 16 mesh "Silver Finish" wire cloth is drawn and woven to Truscon specifications, incorporating special features to meet the exacting requirements necessary for a long life roller screen. The greater tensile strength of the horizontal strands reduce sagging and bulging to a minimum and the soft vertical strands are an added safeguard against rupture due to crystallization. An extra heavy and reinforced selvaged edge strengthens the screen. Exhaustive tests have proved that this type of wire cloth has no equal for roll screen use.

4 Interlocking Bottom Rail—The right angle projections at each end of the bottom rail interlock with the guides, keeping the rail always in a correct operating position, and assuring an even pull on the screen at all times. There is no chance for the rail to pull out of the guides.

5 Flexo Rubber Cushion—A double ply Flexo Rubber Cushion is installed under the bottom rail. This cushions the screen as it is drawn down and protects the finish of the stool. It also serves to take up any unevenness in the stool, thus preventing insects from crawling under the rail.

6 Section of Bottom Rail—The double ribbed bottom rail insures sufficient strength and rigidity for all widths of screens. The lower rib is wider than the upper and is made with a slight upward bend to provide the proper grip when pulling down on the screen. The rail is made in one piece, so formed that each vertical strand of wire cloth is locked securely in place.

7 End Cap Projection—The Telescoping End Cap Projection is a distinctive feature, found in no other screen, which allows the necessary vertical adjustments to take care of all installation conditions. The End Projection fits neatly into the guides permitting the use of the same standard screen regardless of whether the housing is attached to the transom bar or below the head jamb.

8 Hexagon Housing—The small hexagon housing is only 1½ inches high and is so neat and inconspicuous that it appears as an integral part of the casement frame. End caps are distinctive in appearance and have a perfect flush joint. A special feature provides for a free lowering of the screen until within four or five inches of the stool when the wire cloth tightens against the housing, making the screen absolutely insect proof.

CASEMENT Rol-up SCREENS

Specifications

GENERAL

1 All Truscon Steel Casement Windows as shown on drawings, unless otherwise specified, shall be equipped with "Casement Rol-Up Screens," as furnished by Truscon Steel Company of Youngstown, Ohio.

SCOPE OF WORK

2 The contractor shall include in his work the furnishing and installing of all "Casement Rol-Up Screens" on Truscon standard casements so prepared to receive same.

MATERIAL

3 All exposed and working parts shall be of rust-resisting alloy steel. Wire screen cloth shall be especially woven 16-mesh Silver Finish, so manufactured as to have stiff horizontal strands to provide rigidity and soft vertical strands to withstand constant rolling action. All selvage edges shall be reinforced with additional vertical strands. (*See Note* 2.)

CONSTRUCTION

4 (A) Housing shall be of hexagonal shape 1¾ x 1½ inches with end caps provided with a 4½ inch telescoping projection.

(B) Guides shall be ⅝ inches wide and $\frac{11}{16}$″ deep and so designed as to constantly interlock the bottom rail.

(C) The bottom rail shall be of reinforced double-ribbed construction with right angle end projection interlocking with guides. A double ply Flexo-Cushion shall be installed in all bottom rails to assure perfect stool contact. The bottom rail shall be equipped with a positive locking device.

(D) Roller mechanism shall be of all-metal construction with a ¼″ solid steel mandrel running the entire length of roller and provided with special alloy steel bearing and high tension spring wire capable of maintaining a sufficient and constant pull.

FINISH

5 All "Casement Rol-Up Screens" shall receive a standard shop protective coat at factory.

ERECTION

6 The contractor shall install "Casement Rol-Up Screens" upon the inside frames of prepared Truscon Standard Casements, and shall see that each screen is properly adjusted according to installation details. (*See Note* 3.)

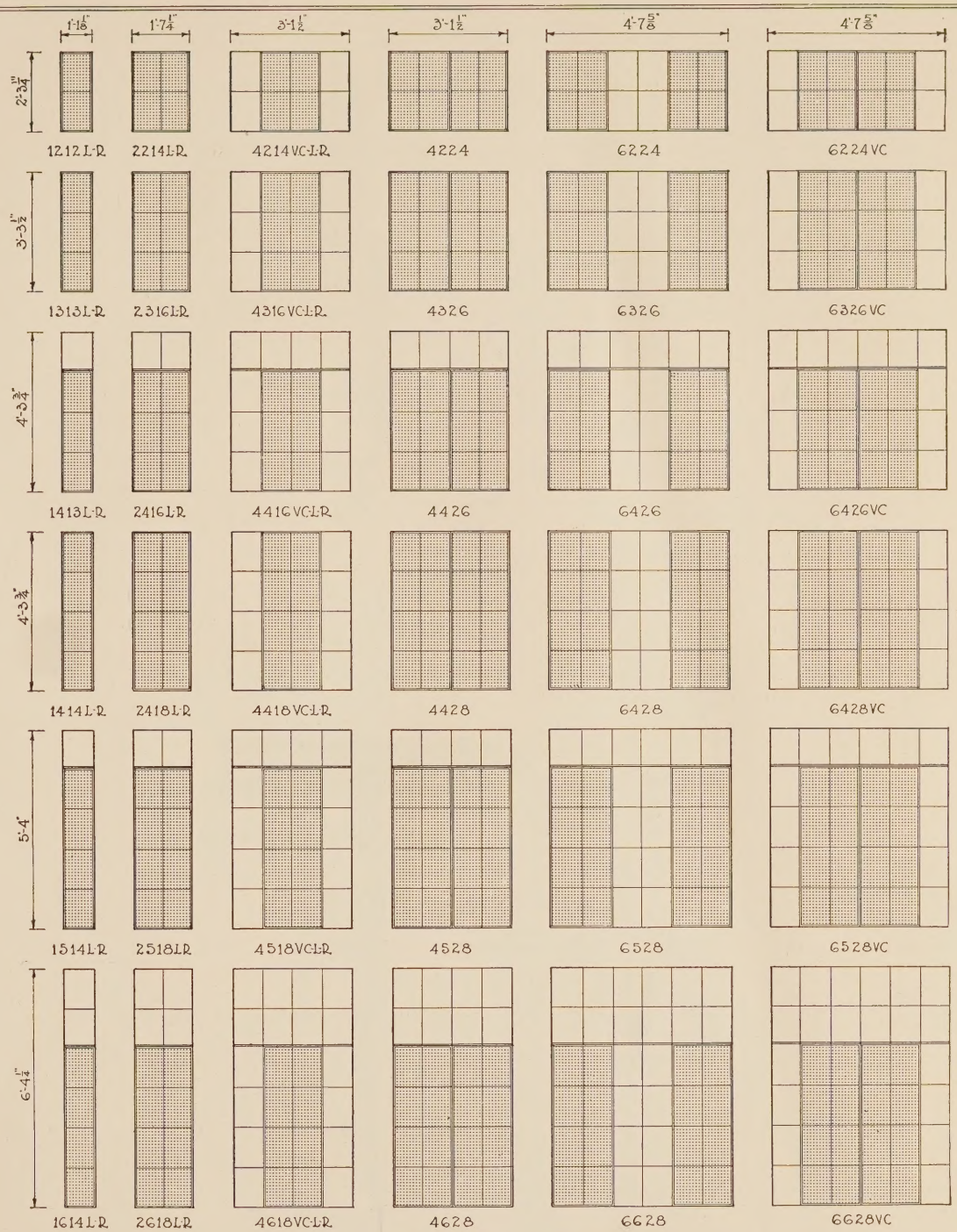
(Where so desired, the Erection Division of the Truscon Steel Company will contract for the installation of all "Casement Rol-Up Screens.")

NOTES:—1. Average shipping weight approximately nine pounds per screen unit.

2. "Silver Finish" wire cloth is a product especially woven to our own specifications, incorporating certain features to meet the exacting requirements for a long-life roller screen. The greater tensile strength of its horizontal strands reduces sagging to a minimum. The soft vertical strands are an added safeguard against rupture due to crystallization in the constant action of rolling. Its weather-resisting properties are equal, if not superior, to any wire cloth. Bronze cloth may be supplied, if desired, but for reasons stated above "Silver Finish" wire cloth is recommended for roller screens.

3. Architects and Contractors should take particular care to see that very little of the plaster, tile or wooden trim overlaps the steel casement frame. A minimum of ⅝ inch of the casement frame must be left exposed to provide space for the "Casement Rol-Up Screen" Metal Guides. (See Plate CS-1, Page 8.)

TRUSCON STANDARD CASEMENTS MODEL No. 5 WITH SCREENS



NOTE SHADED PORTION INDICATES SCREENS

~NOTES~

SCREENS ARE STOCK TYPE AND READY FOR PROMPT DELIVERY
IN ORDERING SCREENS USE NOMENCLATURE OF CASEMENT UNIT
HAND OF SCREEN IDENTICAL TO HAND OF WINDOW (RIGHT HAND WINDOW TAKES A RIGHT HAND SCREEN)
SCREENS CAN BE FURNISHED FOR VENTED TRANSOMS USING STANDARD CAM HANDLE HARDWARE
SEE SPECIFICATIONS FOR FURTHER INFORMATION

CASEMENT Rol-up SCREENS

MODEL NO 5

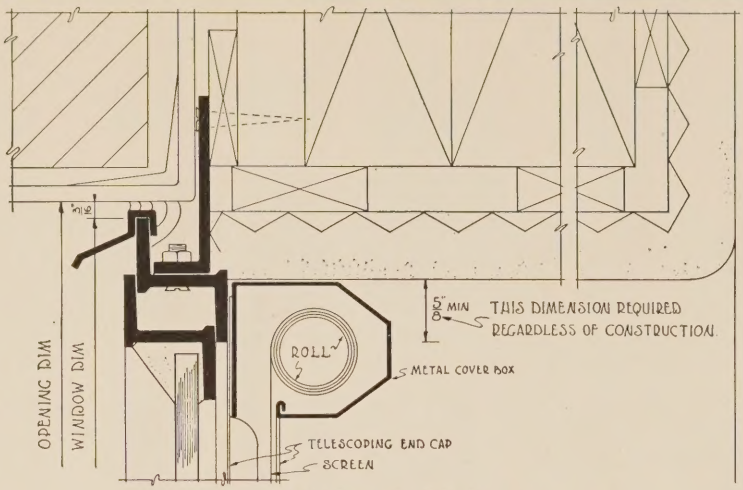
TRUSCON STANDARD CASEMENTS

TRUSCON STEEL COMPANY "CASEMENT ROL-UP SCREENS" YOUNGSTOWN-OHIO

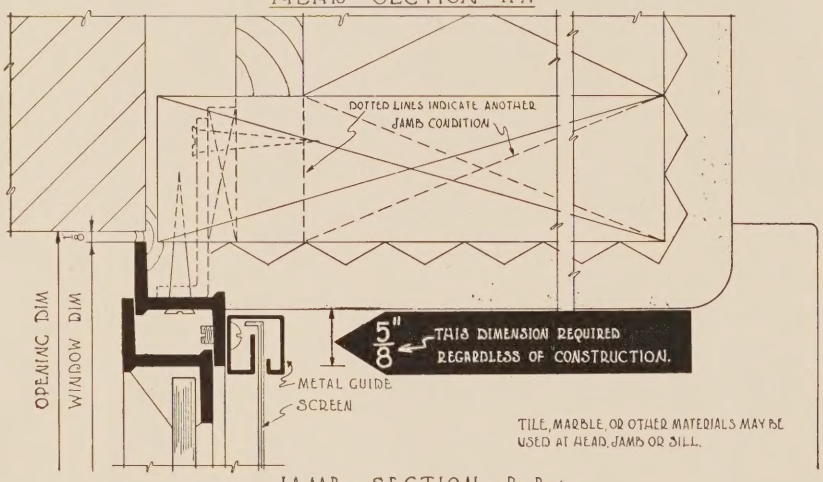
CS-4

OCT ~ 1929

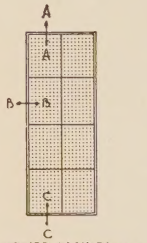
TRUSCON STANDARD CASEMENTS MODEL NO. 5 WITH SCREENS



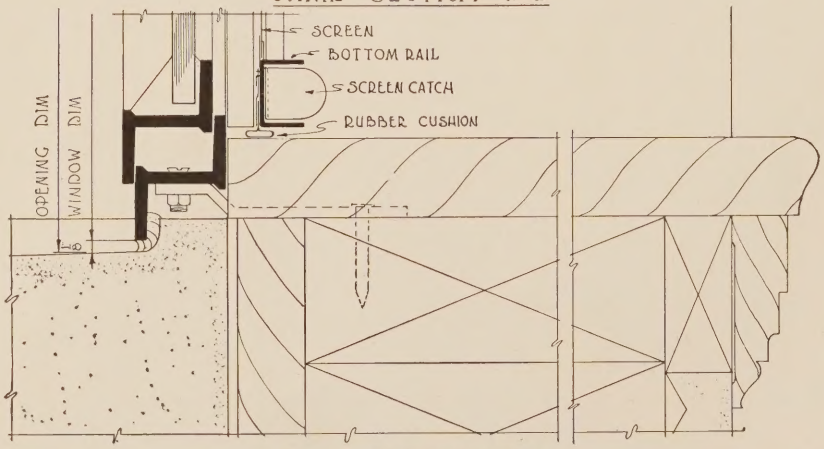
HEAD SECTION A-A


DOTTED LINES INDICATE ANOTHER JAMB CONDITION
OPENING DIM
WINDOW DIM
5/8"
THIS DIMENSION REQUIRED REGARDLESS OF CONSTRUCTION.
METAL GUIDE
SCREEN
TILE, MARBLE, OR OTHER MATERIALS MAY BE USED AT HEAD, JAMB OR SILL.

JAMB SECTION B-B



OUTSIDE ELEVATION



SILL SECTION C-C

CASEMENT Rol-up SCREENS

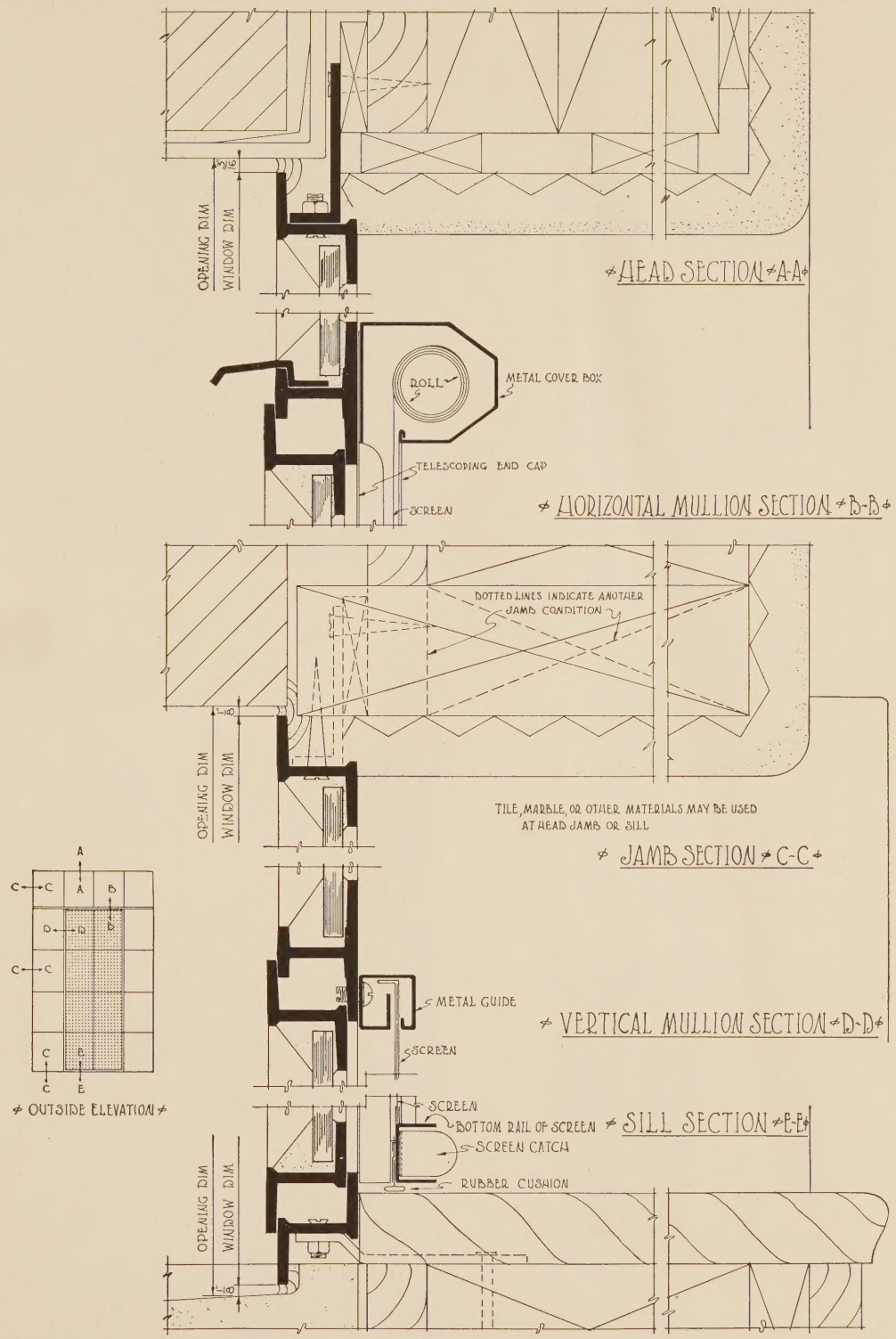
MODEL NO 5

TRUSCON STANDARD CASEMENTS

TRUSCON STEEL COMPANY · "CASEMENT ROL-UP SCREENS" YOUNGSTOWN - OHIO

CS-1

OCT 1929



MODEL NO 5

TRUSCON STANDARD CASEMENTS

TRUSCON STEEL COMPANY "CASEMENT ROL-UP SCREENS" YOUNGSTOWN-OHIO

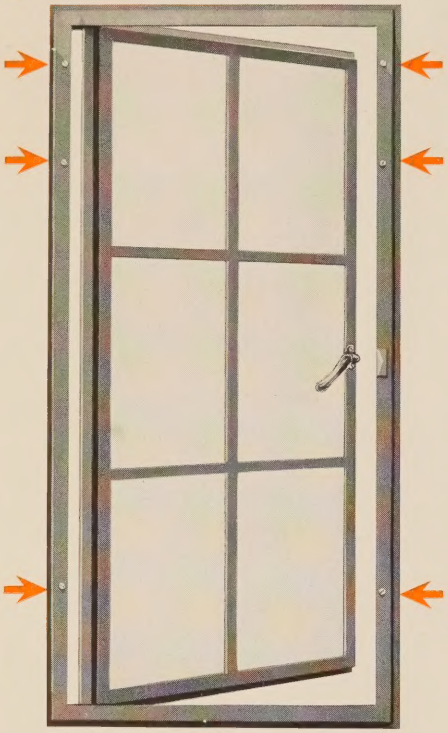
CASEMENT Rol-up SCREENS

CS-2

OCT - 1929

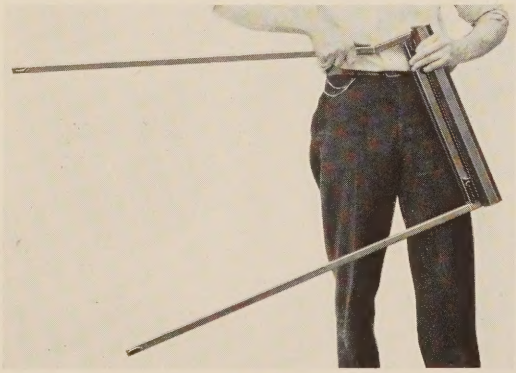
CASEMENT Rol-up SCREENS

Progressive Installation



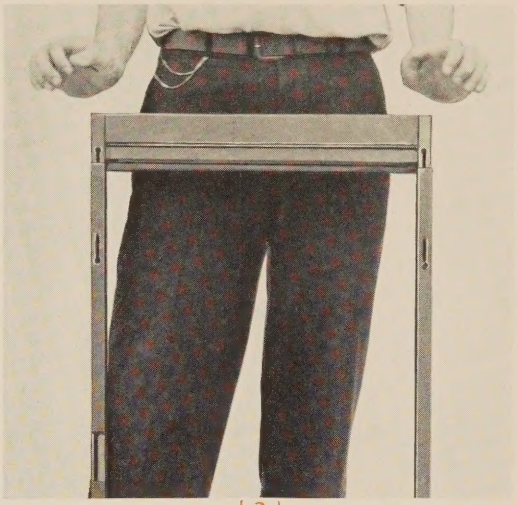
[1]

The Truscon Standard Casement as delivered from the factory, prepared to receive "Casement Rol-Up Screens." The six (6) screws shown must be loosened *exactly* two full turns from a tight position.



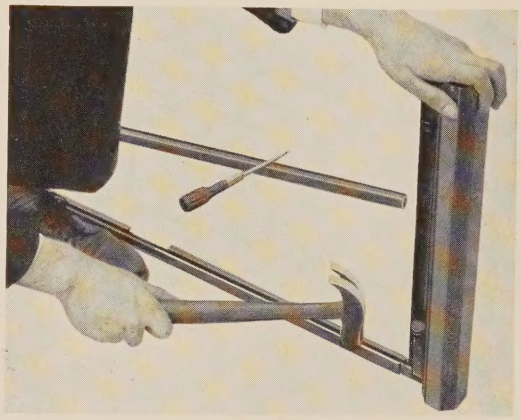
[2]

With the catches at the bottom and the grooves facing each other telescope the metal guides over the screen housing end cap projection.



[3]

Rest the metal guides on the floor and gently tap the housing down until the top of the metal guides reach the position on the slot at the back of the end cap projection as shown.



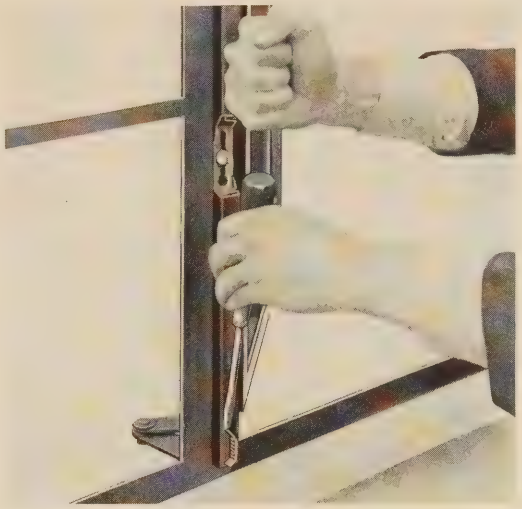
[4]

(a) If the metal guides bind when being driven over the end cap projection lightly tap the folded edge of the guide as shown above.

(b) Place the assembled screen against the frame so that the large openings in the metal guides allow the screw heads to pass through.

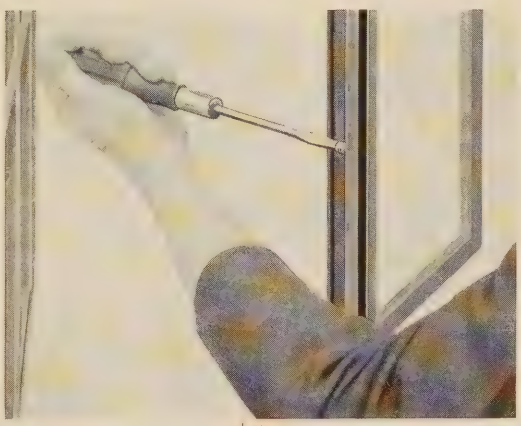
NOTE: It is immaterial at this point if the holes in the end cap projections are not in an exact position to allow the top screw heads to pass thru. This will be adjusted later.

Progressive Installation



[5]

Gently force each guide down to contact with the stool. The shank of the screw in the steel casement frame slides in the slot and the head of the screw holds the metal guide in place.



[6]

(a) Tighten up *only* the bottom screw of each guide as shown above. (The ends of the screws are purposely slotted for tightening.)

(b) After the bottom screws are secured, adjust the roller screen housing so the two upper screws fit in the slots in the end cap projections. This done, slide the housing to desired position and tighten the top screws. The center screws should now be tightened.

[7]

A sheet metal screw is used to lock securely each guide with the end cap projection. Insert the screws wherever the holes match. Screws for this purpose are contained in an envelope attached to the screen.

[8]

The Casement Rol-Up Screen is now completely installed and ready for use.

CASEMENT SIDE HINGED SCREENS

THERE are many conditions where the particular advantages of a flat type screen are desirable for the screening of casements. Among these are screens for hospitals, offices, hallways of apartments and for general screening where the items of low cost, permanence and simplicity of operation are important. To meet these conditions Truscon has developed an efficient, economical side hinged all-metal screen for exclusive use with the Truscon Standard Casement.

The simplicity and attractiveness of the "Casement Side Hinged Screen," both in design, installation and operation, is noteworthy. No carpenter work, no special fitting and no special mouldings are necessary, thus the economy of first cost is augmented by the economy of installation.

Allows Full Depth of Reveal

Screens are flush against the casement frame, instead of protruding out 2 inches or more. Greater room beauty results.

Simple Operation

One finger will open or close the screen. As easy to operate as a perfect fitting cupboard door.

Easy to Install

No special window frame construction necessary. Only six screws are needed to attach the hinges and keeper directly to the frame of the casement. No carpenter work, no special fitting and no special mouldings are required.

Low Cost—Standard Sizes

"Casement Side Hinged Screens" are made in standard sizes so that the benefits of volume production are reflected in the price with the result that they cost less than ordinary wood screens. Screens for similar sized openings are completely interchangeable.

Permanent

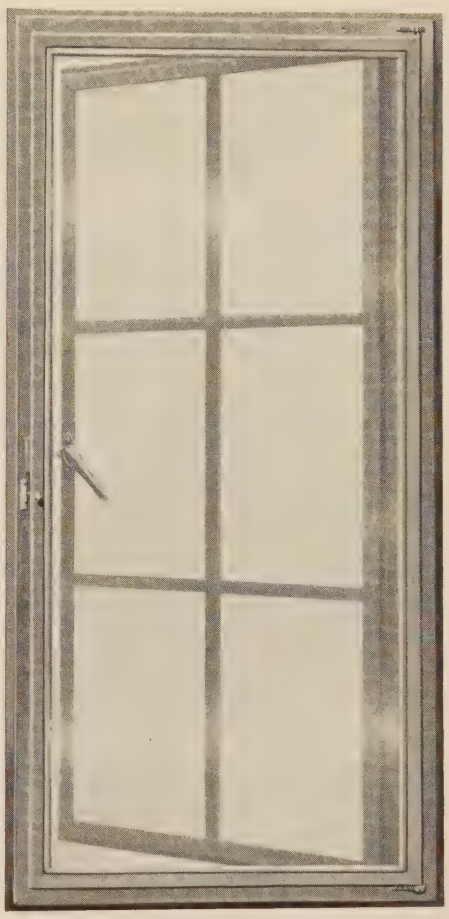
Frames are extra sturdy and the wire cloth is made of enduring bronze. Being on the inside of the window, the screen is protected from the weather and can be easily removed.

Narrow Frames

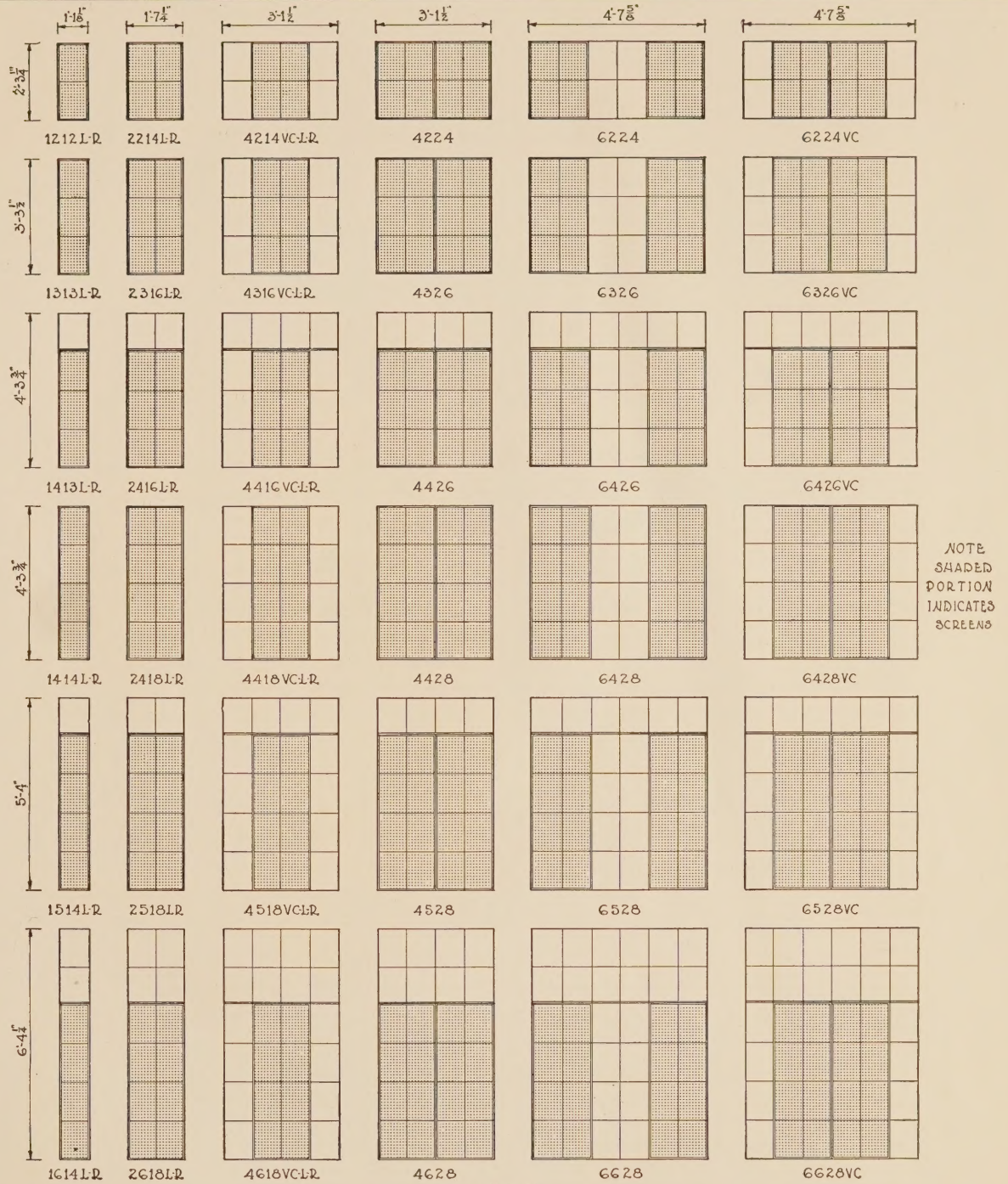
The use of tubular steel frames with reinforced corners permits a great reduction in bulk as compared with the usual flat screen. The frame fits tightly against the casement, making the screen insect-proof, and in no way obstructing the window opening.

Simple Positive Hardware

The screen hardware consists of two pivot hinges and a keeper which are attached to the casement frame, and a positive locking catch and two pivot pins which are integral with the screen.



TRUSCON STANDARD CASEMENTS Model No. 5 WITH SCREENS



NOTE SHADED PORTION INDICATES SCREENS

~NOTES~

SCREENS ARE STOCK TYPE AND READY FOR PROMPT DELIVERY
IN ORDERING SCREENS USE NOMENCLATURE OF CASEMENT UNIT
HAND OF SCREEN IDENTICAL TO HAND OF WINDOW (RIGHT HAND WINDOW TAKES A RIGHT HAND SCREEN)
SCREENS CAN BE FURNISHED FOR VENTED TRANSOMS USING STANDARD CAM HANDLE HARDWARE
SEE SPECIFICATIONS FOR FURTHER INFORMATION

CASEMENT
SIDE HINGED
SCREENS

MODEL NO 5

TRUSCON STANDARD CASEMENTS

TRUSCON STEEL COMPANY "FLAT TYPE SIDE HINGED SCREENS" YOUNGSTOWN-OHIO

CS-5
OCT ~ 1929

CASEMENT
SIDE HINGED
SCREENS

Specifications

GENERAL

1 All Truscon Standard Casements Model No. 5 as shown on drawings, unless otherwise specified, shall be equipped with "Casement Side-Hinged Screens" as furnished by Truscon Steel Company of Youngstown, Ohio.

SCOPE OF WORK

2 Contractor shall include in his work the furnishing and installing of all "Casement Side-Hinged Screens" on Truscon Standard Casements so prepared to receive same. (See Detail.)

MATERIALS

3 (A) Frame shall be of cold-rolled galvanized steel, 20-gauge.
(B) Wire cloth shall be of 16-gauge mesh, antique finish solid bronze.

CONSTRUCTION

4 Frames shall be 3/8 inches in depth and 1 inch in width, of tubular construction, and all corners shall be reinforced. Frames shall be provided with a removable spleen so as to make it easily re-screenable. Pivot rods shall be provided on each end. The lower pivot rod shall be adjustable so that the screen can be easily removed. Necessary hardware for installing and positive locking catch shall be provided.

FINISH

5 All "Casement Side-Hinged Screens" shall receive one standard shop protective coat at factory.

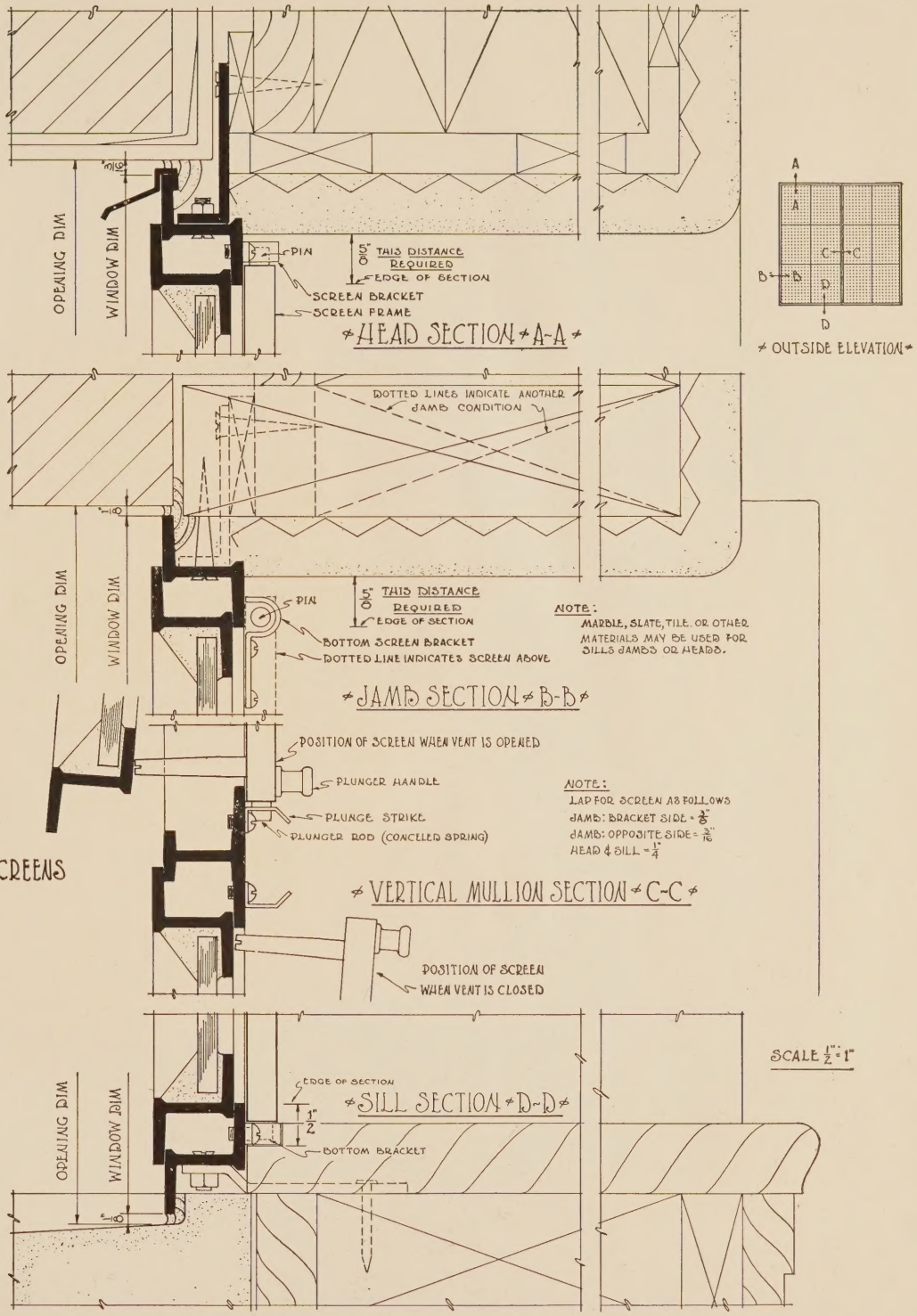
ERECTION

6 The contractor shall install each and every "Casement Side-Hinged Screen" on the inside frame of prepared Truscon Standard Casements and see that each screen is properly fitted and adjusted according to installation details. (*See Note* 2.)

(Where so desired, the Erection Division of the Truscon Steel Company will contract for the installation of all "Casement Side-Hinged Screens.")

NOTES:—1. Average shipping weight six pounds per screen unit.

2. Architects and contractors should take particular care to see that very little of the plaster, tile or wooden trim overlaps the steel casement frame. A minimum of 5/8 inch of the casement frame must be left exposed to provide space for the "Casement Rol-Up Screen" Metal Guides. (See Plate CS-1, Page 8.)



CASEMENT SIDE HINGED SCREENS	MODEL NO 5 TRUSCON STANDARD CASEMENTS TRUSCON STEEL COMPANY "FLAT TYPE SIDE HINGED SCREENS" YOUNGSTOWN - OHIO	CS-3 OCT - 1929

TRUSCON SALES OFFICES

Albany, N. Y., 75 State Street
Altoona, Pa., 231 Central Trust Building
Atlanta, Ga., Mortgage Guarantee Building
Baltimore, Md., 1507 Standard Oil Building
Birmingham, Ala., 513 North 21st Street
Boston, Mass., 260 Tremont Street
Brooklyn, N. Y., 26 Court Street
Buffalo, N. Y., 627 Genesee Building
Charleston, W. Va., 210 Union Building
Chattanooga, Tenn., 505 James Building
Chicago, Ill., 228 North LaSalle Street
Cincinnati, Ohio, 505 Walnut Street
Cleveland, Ohio, 6100 Truscon Avenue
Columbus, Ohio, 1000-04 Atlas Building
Dallas, Texas, 413 Construction Industries Bldg.
Dayton, Ohio, 802 Harries Building
Decatur, Ill., 408 Standard Life Building
Denver, Colorado, 430 Cooper Building
Des Moines, Iowa, Hubbell Building
Detroit, Michigan, 615 Wayne Street
Erie, Pa., 1207 French Street
Fort Wayne, Ind., care of Old Fort Supply Co.
Grand Rapids, Mich., 301 McMullen Building
Greensboro, N. C., 830 Jefferson Stand. Bldg.
Harrisburg, Pa., 600-2 North Second Street
Hartford, Conn., 983 Main Street
Hempstead, L. I., 250 Fulton Ave.
Houston, Texas, 1701 Oliver Street
Indianapolis, Ind., 812 Union Title Building
Jacksonville, Fla., 324 Hildebrandt Building
Kansas City, Mo., 611 Bryant Building
Los Angeles, Cal., 5480 East Slauson Avenue
Louisville, Ky., 621 Marion E. Taylor Building
Madison, Wis., 408 W. Gorham St.
Memphis, Tenn., c/o Fisher Lime & Cement Co.
Milwaukee, Wis., 1200 Straus Building
Minneapolis, Minn., Metropolitan Bank Bldg.
Newark, N. J., 605 Broad Street
New Haven, Conn., 42 Church Street
New Orleans, La., 448 Canal Bank Building
New York, N. Y., 31 Union Square
Norfolk, Va., 526 Dickson Building
Oklahoma City, Okla., 317-319 Magnolia Bldg.
Omaha, Neb., 901 World-Herald Building
Philadelphia, Pa., 1505 Race Street
Pittsburgh, Pa., 523-6 Grant Bldg.
Portland, Oregon, 449-457 Kerby Street
Providence, R. I., 87 Weybosset Avenue
Richmond, Va., 15 N. 6th Street
Rochester, N. Y., 614 Temple Street
Roswell, N. M., County Engineer's Office
St. Louis, Mo., 1304 Ambassador Building
San Antonio, Texas, 901 Travis Building
Seattle, Wash., 310 Seaboard Building
Salt Lake City, Utah, 1526 S. West Temple Street
San Francisco, Cal., 55 New Montgomery Street
Scranton, Pa., 620 Wheeler Street
South Bend, Ind., 222 Christman Building
Syracuse, N. Y., 440 Gurney Building
Tampa, Fla., 320 Lafayette Arcade
Toledo, Ohio, 312 Richardson Building
Washington, D. C., 801 Hill Building
Wichita, Kan., 808 Brown Building
Youngstown, Ohio, Albert Street

RAILROAD DEPARTMENT, YOUNGSTOWN, OHIO
PRESSED STEEL DIVISION, CLEVELAND, OHIO
FOREIGN TRADE DIVISION, 90 West Street, NEW YORK CITY
TRUSSED CONCRETE STEEL COMPANY OF CANADA, Limited, WALKERVILLE, ONT.
THE TRUSCON LABORATORIES, DETROIT, MICHIGAN
(*For Waterproofings, Floor Hardeners, Industrial Maintenance Products and Cement Roofing Tile*)

TRUSCON WAREHOUSES

Baltimore, Md.
Birmingham, Ala.
Boston, Mass.
Buffalo, N. Y.
Chicago, Ill.
Cincinnati, Ohio
Cleveland, Texas
Dallas, Texas
Detroit, Mich.
Greensboro, N. C.
Indianapolis, Ind.
Jacksonville, Fla.
Kansas City, Mo.
Los Angeles, Cal.
Milwaukee, Wis.
Newark, N. J.
New York, N. Y.
Norfolk, Va.
Omaha, Neb.
Philadelphia, Pa.
Portland, Oregon
San Francisco
St. Louis, Mo.
St. Paul, Minn.
Youngstown, Ohio

EXECUTIVE OFFICES AND MAIN PLANT:
YOUNGSTOWN, OHIO
PACIFIC COAST FACTORY, LOS ANGELES, CAL.